

BARNES & THORNBURG



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group: 1624
Confirmation No.: 8656
Application No.: 10/630,574
Invention: CHIRAL NANOTUBES
Applicant: Hicham Fenniri
Filed: July 30, 2003
Attorney
Docket: 3220-72893
Examiner: Unknown

Certificate Under 37 CFR 1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

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Karla I. Mays
(Printed Name)

INFORMATION DISCLOSURE STATEMENT

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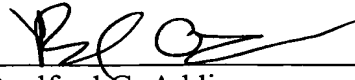
Sir:

This statement is filed in the application identified above pursuant to 37 C.F.R. § 1.56. No representation is intended that a complete search has been made of the prior art or that no better art references than listed below are available. A copy of each reference is provided for review by the Examiner. The filing of this Statement shall not be construed to be an admission that the information cited in the Statement is, or is considered to be, material to patentability as defined in §1.56(b).

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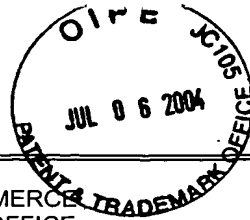
Respectfully submitted,

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A handwritten signature in black ink, appearing to read 'B. Addison', is written over a horizontal line.

Bradford G. Addison
Attorney Reg. No. 41,486

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 3220-72893	SERIAL NO. 10/630,574
	APPLICANT Hicham Fenniri	
	FILING DATE July 30, 2003	GROUP 1624

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	AR	Thomas C. Marsh et al., "A new DNA nanostructure, the G-wire, imaged by scanning probe microscopy", <i>Oxford Journals Online, Nucleic Acids Research</i> , Vol. 23, Issue 4, pg. 696 (Copyright © 1995 by Oxford University Press)
	AS	George M. Whitesides et al., "Noncovalent Synthesis: Using Physical--Organic Chemistry To Make Aggregates", <i>Acc. Chem. Res.</i> , Vol. 28, No. 1, 1995, pgs. 37-44
	AT	Sergei V. Kolotuchin et al., "Self-Assembly Mediated by the Donor--Donor--Acceptor--Acceptor--Acceptor--Donor (DDA•AAD) Hydrogen-Bonding Motif: Formation of a Robust Hexameric Aggregate", <i>J. Am. Chem. Soc.</i> , Vol. 120, No. 35, 1998, pgs. 9092-9093
	AU	Rosa E. Meléndez et al., "Hydrogen-Bonded Ribbons, Tapes and Sheets as Motifs for Crystal Engineering", <i>Top. Curr. Chem.</i> , Vol. 198, 1998, pgs. 97-129
	AV	Scott L. Forman et al., "Toward Artificial Ion Channels: A Lipophilic G-Quadruplex", <i>J. Am. Chem. Soc.</i> , Vol. 122, No. 17, 2000, pgs. 4060-4067
	AW	Giovanni Gottarelli et al., "The Self-Recognition and Self-Assembly of Folic Acid Salts in Isotropic Water Solution", <i>Helvetica Chimica Acta</i> , Vol. 79 (1996), pgs. 220-234
	AX	Harm-Anton Klock, et al., "Self-Assembly of Rodlike Hydrogen-Bonded Nanostructures", <i>J. Am. Chem. Soc.</i> , Vol. 121, No. 30, 1999, pgs. 7154-7155
	AY	Nobuo-Kimizuka et al., "Mesoscopic Supramolecular Assembly of a 'Janus' Molecule and a Melamine Derivative via Complementary Hydrogen Bonds", <i>J. Chem. Soc., Chem. Commun.</i> , 1995, pgs. 2103-2104
	AZ	Toyoko Imae et al., "Formation of Fibrous Molecular Assemblies by Amino Acid Surfactants in Water", <i>J. Am. Chem. Soc.</i> , Vol. 114, No. 9, 1992, pgs. 3414-3419

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	BL						
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)		
	BR	David A. Frankel et al., "Supramolecular Assemblies of Diacetylenic Aldonamides", <i>J. Am. Chem. Soc.</i> , Vol. 116, No. 22, 1994, pgs. 10057-10069
	BS	Jürgen-Hinrich Fuhrhop et al., "Molecular Monolayer Rods and Tubules Made of α -(L-Lysine), ω -(Amino) Bolaamphiphiles", <i>J. Am. Chem. Soc.</i> , Vol. 115, No. 4, 1993, pgs. 1600-1601
	BT	Joel M. Schnur, "Lipid Tubules: A Paradigm for Molecularly Engineered Structures", <i>Science</i> , Vol. 262, 1993, pgs. 1669-1676
	BU	Naotoshi Nakashima et al., "Optical Microscopic Study of Helical Superstructures of Chiral Bilayer Membranes", <i>J. Am. Chem. Soc.</i> , Vol. 107, 1985, pgs. 509-510
	BV	Jacque H. Georger et al., "Helical and Tubular Microstructures Formed by Polymerizable Phosphatidylcholines", <i>J. Am. Chem. Soc.</i> , Vol. 109, No. 20, 1987, pgs. 6169-6175
	BW	Nasreen G. Chopra et al., "Boron Nitride Nanotubes", <i>Science</i> , Vol. 269, 1995, pgs. 966-967
	BX	Tomoko Kasuga et al., "Formation of Titanium Oxide Nanotube", <i>Langmuir</i> , Vol. 14, No. 12, 1998, pgs. 3160-3163
	BY	Wayne Shenton et al., "Inorganic-Organic Nanotube Composites from Template Mineralization of Tobacco Mosaic Virus", <i>Wiley InterScience Article Abstract, Online ISSN: 1521-4095, Print ISSN: 0935-9648, Advanced Materials</i> , Vol. 11, Issue 3, 1999, 2 pgs.
	BZ	Charles J. Brumlik et al., "Template Synthesis of Metal Microtubules", <i>J. Am. Chem. Soc.</i> , Vol. 113, No. 8, 1991, pgs. 3174-3175

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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)		
	CR	Ewan J. M. Hamilton et al., "Preparation of Amorphous Boron Nitride and Its Conversion to a Turbostratic, Tubular Form", <i>Science</i> , Vol. 260, 1993, pgs. 659-661
	CS	Sumio Iijima, "Helical microtubules of graphitic carbon", <i>Nature</i> , Vol. 354, 1991, pgs. 56-58
	CT	Maarten F. M. Roks et al., "Biomimetic Macromolecular Chemistry: Design and Synthesis of an Artificial Ion Channel Based on a Polymer Containing Cofacially Stacked Crown Ether Rings. Incorporation in Dihexadecyl Phosphate Vesicles and Study of Cobalt Ion Transport", <i>Macromolecules</i> , Vol. 25, No. 20, 1992, pgs. 5398-5407
	CU	Akira Harada et al., "Synthesis of a tubular polymer from threaded cyclodextrins", <i>Nature</i> , Vol. 364, 1993, pgs. 516-518
	CV	Naomi Sakai et al., "Transmembrane B-DNA", <i>Short Communications, Chembiochem</i> , No. 2, 2000, pgs. 123-125
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	CX	James C. Nelson et al., "Solvophobicity Driven Folding of Nonbiological Oligomers", <i>Science</i> , Vol. 277, 1997, pgs. 1793-1796
	CY	M. Reza Ghadiri et al., "Self-assembling organic nanotubes based on a cyclic peptide architecture", <i>Nature</i> , Vol. 366, 1993, pgs. 324-327
	CZ	Mark Mascal et al., "The G-C DNA Base Hybrid: Synthesis, Self-Organization and Structural Analysis", <i>J. Org. Chem.</i> , Vol. 64, No. 23, 1999, pgs. 8479-8484

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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)		
	DR	Andrew Marsh et al., "Self-complementary hydrogen bonding heterocycles designed for the enforced self-assembly into supramolecular macrocycles", <i>Chem. Commun.</i> , 1996, pgs. 1527-1528
	DS	Thierry Verbiest et al., "Strong Enhancement of Nonlinear Optical Properties Through Supramolecular Chirality", <i>Science</i> , Vol. 282, Issue 5390, 1998, 7 pgs.
	DT	Hicham Fenniri et al., "Helical Rosette Nanotubes: Design, Self-Assembly, and Characterization", <i>J. Am. Chem. Soc.</i> , Vol. 123, No. 16, 2001, pgs. 3854-3855
	DU	Hicham Fenniri et al., "Entropically driven self-assembly of multichannel rosette nanotubes", <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 99, Suppl. 2, pgs. 6487-6492
	DV	Hicham Fenniri et al., "Towards Self-Assembled Electro- and Photo-Active Organic Nanotubes", <i>Polymer Preprints</i> , Vol. 42, No. 2, 2001, pgs. 569-570
	DW	Maarten F. M. Roks et al., "Biomimetic Macromolecular Chemistry: Design and Synthesis of an Artificial Ion Channel Based on a Polymer Containing Cofacially Stacked Crown Ether Rings. Incorporation in Dihexadecyl Phosphate Vesicles and Study of Cobalt Ion Transport", <i>Macromolecules</i> , Vol. 25, 1992, pgs. 5398-5407
	DX	Sumio Iijima, "Helical microtubules of graphitic carbon", <i>Nature</i> , Vol. 354, 1991, pgs. 56-58
	DY	Ewan J. M. Hamilton et al., "Preparation of Amorphous Boron Nitride and Its Conversion to a Turbostratic, Tubular Form", <i>Science</i> , Vol. 260, 1993, pgs. 659-661
	DZ	Charles J. Brumlik et al., "Template Synthesis of Metal Microtubules", <i>J. Am. Chem. Soc.</i> , Vol. 113, 1991, pgs. 3174-3175

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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)		
	ER	Wayne Shenton et al., "Inorganic–Organic Nanotube Composites from Template Mineralization of Tobacco Mosaic Virus", <i>Adv. Mater.</i> , Vol. 11, No. 3, 1999, pgs. 253-256
	ES	Nasreen Chopra et al., "Boron Nitride Nanotubes", <i>Science</i> , Vol. 269, 1995, pgs. 966-967
	ET	Joel M. Schnur, "Lipid Tubules: A Paradigm for Molecularly Engineered Structures", <i>Science</i> , Vol. 262, 1993, pgs. 1669-1676
	EU	Naotoshi Nakashima et al., "Optical Microscopic Study of Helical Superstructures of Chiral Bilayer Membranes", <i>J. Am. Chem. Soc.</i> , Vol. 107, 1985, pgs. 509-510
	EV	Jürgen-Hinrich Fuhrhop et al., "Molecular Monolayer Rods and Tubules Made of α -(L-Lysine), ω -(Amino) Bolaamphiphiles", <i>J. Am. Chem. Soc.</i> , Vol. 115, No. 4, 1993, pgs. 1600-1601
	EW	Kunihiro Ichimura, "Photoalignment of Liquid-Crystal Systems", <i>Chem. Rev.</i> , Vol. 100, No. 5, 2000, pgs. 1847-1873
	EX	Toyoko Imae et al., "Formation of Fibrous Molecular Assemblies by Amino Acid Surfactants in Water", <i>J. Am. Chem. Soc.</i> , Vol. 114, No. 9, 1992, pgs. 3414-3419
	EY	Nobuo Kimizuka et al., "Mesoscopic Supramolecular Assembly of a 'Janus' Molecule and a Melamine Derivative via Complementary Hydrogen Bonds", <i>J. Chem. Soc., Chem. Commun.</i> , 1995, pgs. 2103-2104
	EZ	Ben L. Feringa et al., "Chiroptical Molecular Switches", <i>Adv. Mat.</i> , Vol. 8, No. 8, 1996, pgs. 681-684

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	GS	J. H. K. Ky Hirschberg et al., "Helical self-assembled polymers from cooperative stacking of hydrogen-bonded pairs", <i>Nature</i> , Vol. 407, 2000, pgs. 167-170
	GT	Keith C. Russell, et al., "Investigation of Self-Assembled Supramolecular Species in Solution by IL-ESMS, a New Mass Spectrometric Technique", <i>Angew Chem. Int. Ed. Engl.</i> , Vol. 34, No. 2, 1995, pgs. 209-213
	GU	Xuecheng Cheng et al., "Characterization of Hydrogen-Bonded Aggregates in Chloroform by Electrospray Ionization Mass Spectrometry", <i>J. Org. Chem.</i> , Vol. 61, No. 6, 1996, pgs. 2204-2206
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	GW	Sergei V. Kolotuchin et al., "Self-Assembly Mediated by the Donor--Donor--Acceptor-Acceptor--Acceptor--Donor (DDA-AAD) Hydrogen-Bonding Motif: Formation of a Robust Hexameric Aggregate", <i>J. Am. Chem. Soc.</i> , Vol. 120, No. 35, 1998, pgs. 9092-9093
	GX	Mark Mascal et al., "The G-C DNA Base Hybrid: Synthesis, Self-Organization and Structural Analysis", <i>J. Org. Chem.</i> , Vol. 64, No. 23, 1999, pgs. 8479-8484
	GY	Stephen L. Mayo et al., "DREIDING: A Generic Force Field for Molecular Simulations", <i>J. Phys. Chem.</i> , Vol. 94, No. 26, 1990, pgs. 8897-8909
	GZ	Donovan N. Chin et al., "Computations and H NMR Spectroscopy of the Imide Region Can Distinguish Isomers of Hydrogen-Bonded Aggregates", <i>J. Org. Chem.</i> , Vol. 62, No. 6, 1997, pgs. 1891-1895

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	HR	Martin Gellert et al., "Helix Formation by Guanylic Acid", <i>Proc. Natl. Acad Sci USA</i> , Vol. 48, No. 12, 1962, pgs. 2013-2018
	HS	Giovanni Gottarelli et al., "Self-assembled Columnar Mesophases Based on Guanine-related Molecules", in <i>Comprehensive Supramolecular Chemistry</i> , Vol. 9: Templating, Self-Assembly and Self Organization (J. Lehn et al., Pergamon Press, Oxford), 1995, pgs. 483-506
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	HU	David S. Lawrence et al., "Self-Assembling Supramolecular Complexes", <i>Chem. Rev.</i> , Vol. 95, No. 6, 1995, pgs.2229-2260
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	HW	Michel Gallant et al., "Use of Hydrogen Bonds to Control Molecular Aggregation. Association of Dipyridones Joined by Flexible Spacers", <i>J. Org. Chem.</i> , Vol. 56, No. 7, 1991, pgs. 2284-2286
	HX	Jonathan A. Zerkowski et al., "Solid-State Structures of "Rosette" and "Crinkled Tape" Motifs Derived from the Cyanuric Acid-Melamine Lattice", <i>J. Am. Chem. Soc.</i> , Vol. 114, No. 13, 1992, pgs. 5473-5475
	HY	Steven C. Zimmerman et al., "Controlled Molecular Aggregation. 1. Cyclic Trimerization via Hydrogen Bonding", <i>J. Org. Chem.</i> , Vol. 57, No. 8, 1992, pgs. 2215-2217
	HZ	Stefania Bonazzi et al., "Self-Assembly and Liquid Crystal Formation of Folic Acid Salts", <i>Angew. Chem. Int. Ed. Engl.</i> , Vol. 32, No. 2, 1993, pgs. 248-250

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.
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U.S. PATENT DOCUMENTS							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	JA						
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